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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/660,205	09/12/2000	James H. Parry	21706-04982	6898
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HAMILTON & TERRILE, LLP			BARNIE, REXFORD N	
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·			2643	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office A sale of O	09/660,205	PARRY ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAN MODATE And	REXFORD N BARNIE	2643			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 08 Ma	arch 2004.				
2a) This action is FINAL . 2b) ⊠ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-36 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-36 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the consequence of the second state of the second sta	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prioric application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)		REXFORD BARNIE PRIMARY EXAMINER			
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	αιοπ., φριιοσμοίτ (ε 10-102)			

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DETAILED ACTION

Response to Amendment

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 34 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinoshita et al. (US Pat# 5,734,724) in view of Hamilton et al.

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(US Pat# 5,764,759) or Wintour (US Pat# 5,987,098) or Holland et al. (US pat# 6,304,645) or Dunn et al. (US Pat# 6,580,793).

Regarding claim s 1 and 34, Kinoshita et al. teaches a method for supporting communications among a plurality of communications terminals comprising the steps of receiving audio signals from communication terminals at a centralized location in (see figs. 6, 8, 16, 22), digital signal processing resources including echo cancellers, amplifiers, mixers in (see fig. 16) which would be assigned to audio signals, processing the audio signals according to certain parameters and formulating mixes and then sending them back to the respective terminals in (see fig. 16). Kinoshita fails to teach pooling and assigning resources based on availability.

It's well known in the art to pool and assign resources including signal processing resources based on availability.

Hamilton et al. teaches a call processing using line characteristics wherein resources including signal processing resources can be assigned based on availability in (see col. 5). Furthermore, signals from a channel or line can be processed to reflect characteristics associated with it.

Wintour teaches a method and system for echo cancellation in 910 of fig.

1) which controls signal processing resources including echo cancellation in (see col. 5 lines 12-15, 46-55).

Holland et al. teaches a call processing system with resources on platforms in (see cols. 2, col. 3 line 61, col. 4) wherein resources can be polled for and allocated based on availability.

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Dunn et al. teaches a method and apparatus for echo cancellation with self-deactivation in (see col. 4 line 25-60 and col. 8) wherein resources can be allocated based on availability and pooling.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching either one of the secondary references into that of Kinoshita in cases where they might be fewer resources than required, reduce cost associated with having to provide more resources, making it possible to control and set up services based on availability of resources inorder to avoid interference and conflicts when utilizing resources during communication set up.

Regarding claim 36, The combination renders obvious the idea of availability of resources

Claims 2-12 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinoshita et al. (US Pat# 5,734,724) in view of Hamilton et al. (US Pat# 5,764,759) or Wintour (US Pat# 5,987,098) or Holland et al. (US pat# 6,304,645) or Dunn et al. (US Pat# 6,580,793 and further in view of lizawa (US Pat# 6,008,838).

Regarding claims 2 and 22, The combination including Kinoshita fails to teach the claimed subject matter in detail but lizawa teaches a multi-point system comprising of a decoding and encoding scheme in conjunction with an audio mixer in (see figs.). Furthermore, lizawa teaches a level calculating circuit, level

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storage circuit, threshold storage section and so forth, which can be used in controlling processing of audio signals.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of lizawa thus making it able to process incoming and outgoing digital signals in for instance a multi-media environment.

Regarding claims 3-9, the combination fails to teach the claimed subject matter in detail comprising of decoding and encoding schemes in conjunction with an audio mixer. Iizawa teaches a conference system with encoding and decoding circuit in addition to an audio mixer for conference calling in (see figs.). Furthermore, lizawa teaches a level calculating means, level storage section and so forth, which can be used in controlling parameters, associated with different terminal at different locations (rooms).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Scordo into that of Kinoshita thus making it possible to control effectively the processing of signals to the various terminals based on parameters settings and so forth.

Regarding claims 10-12, The combination teaches an echo cancellation means in (see 26 of fig. 16 and AMP of fig. 16 of Kinoshita).

Claims 3-16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinoshita et al. (US Pat# 5,734,724) in view of Hamilton et al. (US Pat# 5,764,759) or Wintour (US Pat# 5,987,098) or Holland et al. (US pat# 6,304,645)

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or Dunn et al. (US Pat# 6,580,793) and further in view of Scordo (US Pat# 4,558,180).

Regarding claims 3-9 and 18, The combination fails to teach the claimed subject matter in detail but Scordo teaches a programmable audio mixer in (see fig. 1) with room controls, audio detectors, a bridge and a microprocessor which can be used in controlling acoustic properties of communications in (see fig. 1, col. 1 lines 38-45 and disclosure).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Scordo into that of Kinoshita thus making it possible to control effectively the processing of signals to the various terminals based on parameters settings and so forth.

Regarding claims 10-12, The combination teaches an echo cancellation means in (see 26 of fig. 16 and AMP of fig. 16 of Kinoshita).

Regarding claims 13-14, the combination including Kinoshita teaches controlling of amplification of signals and Scordo teaches determining allocation of resources to terminals involved in a communication session and would have been obvious to one of ordinary skill in the art at the time the invention was made to control allocation of resources to the terminals as taught by the combination.

Regarding claims 15-16, The combination teaches using time delay and so forth in (see Scordo, Kinoshita).

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Claims 17, 19-21, 24-25 and 34-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinoshita et al. (US Pat# 5,734,724) in view of Sastry et al. (US pat# 6,694,373) or Wintour (US Pat# 5,987,098).

Regarding claims 17 and 34, Kinoshita et al. teaches a method for supporting communications among a plurality of communications terminals comprising the steps of receiving audio signals from communication terminals at a centralized location in (see figs. 6, 8, 16, 22), digital signal processing resources including echo cancellers, amplifiers, mixers in (see fig. 16) which would be assigned to audio signals, processing the audio signals according to certain parameters and formulating mixes and then sending them back to the respective terminals in (see fig. 16). Kinoshita teaches a communication support module including means (14C, 20 of fig. 16) and signal processing modules (36, 26 and so forth). Kinoshita fails to teach pooling and assigning resources based on availability.

Sastry et al. teaches a communication system which includes a plurality of resource modules (430 of fig. 4) under the control of a control means (460 of figs. 4, 600 of fig. 6) wherein resource allocation can be performed including echo cancellation in (see col. 3 lines 15-30, col. 4 lines 32-46, 57-63, col. 5 lines 10-27).

Wintour teaches a communication system wherein a centralized module (10) can control a plurality of resources and select resource module processing based on availability (see col. 5 lines 46-55, lines 13-20).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching either one of the secondary references into that of Kinoshita in cases where they might be fewer resources than required, reduce cost associated with having to provide more resources, making it possible to control and set up services based on availability of resources inorder to avoid interference and conflicts when utilizing resources during communication set up.

Regarding claims 19-21, the combination including Kinoshita teaches echo cancellation and amplification of signals.

Regarding claims 24-25, The combination teaches allocation of resources for signal processing by a control module.

Regarding claim 35, the combination including Sastry teaches the claimed subject matter. It's known to allocate for internet telephony and voice data communication.

Regarding claim 36, The combination renders obvious the idea of availability of resources.

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kinoshita et al. (US Pat# 5,734,724) in view of Sastry et al. (US pat# 6,694,373) or Wintour (US Pat# 5,987,098) and further in view of Scordo (US Pat# 4,558,180).

Regarding claim 18, The combination fails to teach the claimed subject matter in detail but Scordo teaches a programmable audio mixer in (see fig. 1)

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with room controls, audio detectors, a bridge and a microprocessor which can be used in controlling acoustic properties of communications in (see fig. 1, col. 1 lines 38-45 and disclosure).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Scordo into that of Kinoshita thus making it possible to control effectively the processing of signals to the various terminals based on parameters settings and so forth.

Claims 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinoshita et al. (US Pat# 5,734,724) in view of Sastry et al. (US pat# 6,694,373) or Wintour (US Pat# 5,987,098) and further in view of lizawa (US Pat# 6,008,838)

Regarding claims 22 and 23, the combination fails to teach the claimed subject matter but lizawa teaches a multi-point system comprising of a decoding and encoding scheme in conjunction with an audio mixer in (see figs.).

Furthermore, lizawa teaches a level calculating circuit, level storage circuit, threshold storage section and so forth which can be used in controlling processing of audio signals.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of lizawa thus making it able to process incoming and outgoing digital signals in for instance a multi-media environment.

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Claims 26-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinoshita et al. (US Pat# 5,734,724) in view of Scordo (US Pat# 4,558,180).

Regarding claim 26, Kinoshita et al. teaches a method for supporting communications among a plurality of communications terminals comprising the steps of receiving audio signals from communication terminals at a centralized location in (see figs. 6, 8, 16, 22), digital signal processing resources including echo cancellers, amplifiers, mixers in (see fig. 16) which would be assigned to audio signals, processing the audio signals according to certain parameters and formulating mixes and then sending them back to the respective terminals in (see fig. 16).. Note that each terminal can be controlled based on parameters settings and the terminals could be located in a room or at site. For the sake of argument, Kinoshita fails to teach a 'room module'.

Scordo teaches a conference system with a programmable audio mixer in (see fig. 1) with room controls, audio detectors, a bridge and a microprocessors which can be used in controlling acoustic properties of communications in (see fig. 1, col. 1 lines 38-45 and disclosure).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Scordo into that of Kinoshita thus making it possible to control effectively the processing of signals to the various terminals based on parameters settings and so forth.

Regarding claims 27-30, the combination including Kinoshita teaches echo cancellation, mixing module and amplification.

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Claims 32-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinoshita et al. (US Pat# 5,734,724) in view of Scordo (US Pat# 4,558,180) and further in view of Iizawa (US Pat# 6,008,838).

Regarding claim 31, The combination fails to teach the claimed subject matter in detail but lizawa teaches a multi-point system comprising of a decoding and encoding scheme in conjunction with an audio mixer in (see figs.).

Furthermore, lizawa teaches a level calculating circuit, level storage circuit, threshold storage section and so forth which can be used in controlling processing of audio signals.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of lizawa thus making it able to process incoming and outgoing digital signals in for instance a multi-media environment.

Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kinoshita et al. (US Pat# 5,734,724) in view of Scordo (US Pat# 4,558,180) and further in view of Hamilton et al. (US Pat# 5,764,759) or Wintour (US Pat# 5,987,098) or Holland et al. (US pat# 6,304,645) or Dunn et al. (US Pat# 6,580,793).

Regarding claims 32-33, The combination fails to teach the claimed subject matter but Hamilton et al. teaches a call processing using line characteristics wherein resources including signal processing resources can be assigned based on availability in (see col. 5). Furthermore, signals from a channel or line can be processed to reflect characteristics associated with it.

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Wintour teaches a method and system for echo cancellation in (10 of fig. 1) which controls signal processing resources including echo cancellation in (see col. 5 lines 12-15, 46-55).

Holland et al. teaches a call processing system with resources on platforms in (see cols. 2, col. 3 line 61, col. 4) wherein resources can be polled for and allocated based on availability.

Dunn et al. teaches a method and apparatus for echo cancellation with self-deactivation in (see col. 4 line 25-60 and col. 8) wherein resources can be allocated based on availability and pooling.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching either one of the secondary references into that of Kinoshita in cases where they might be fewer resources than required, reduce cost associated with having to provide more resources, making it possible to control and set up services based on availability of resources inorder to aroid interference and conflicts when utilizing resources during communication set up.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to REXFORD N BARNIE whose telephone number is (703) 306-2744. The examiner can normally be reached on M-F 9:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CURTIS KUNTZ can be reached on (703) 305-4708. The

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fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER REXFORD BARNIE 03/23/04 REXFORD BARNIE
PRIMARY EXAMINER